TI Preparation of octadecyl **acrylate**/maleic anhydride/styrene copolymer AAMAS as pour point depressant

AU Song Z.-Z.; Zhang G.-C.; Ge J.-J.
CS Petroleum Eng. Dept., Petroleum University

SO Oilfield Chemistry 17/2 122-125 (June 2000) ISSN: 1000-4092
DT Journal; Article
LA Chinese

AB An octadecyl **acrylate**/maleic anhydride/styrene (OAMAS) copolymer was synthesized through organic solution copolymerization, to be used as pour point depressant/**viscosity** reducer for Shengli paraffinic **crude oil.** The proper ratio of monomers, initiator use level, and reaction time were found to obtain copolymers with highest pour point depressing and **viscosity** reducing capacities. The waxing inhibition and pour point and **viscosity** reduction of Shengli crude were achieved by using OAMAS. The pour point of the crude was lowered by 15°C and its apparent **viscosity** at 20°C - by 88% when 300 ppm copolymer OAMAS was added at 60°C. Spectrum, 2 tables, 5 graphs, and 10 references